

CLAIMS

5 1. A two-component dental bleaching system wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:
as a first component, a dental peroxide gel comprising
10 both carbamide peroxide and hydrogen peroxide; and
as a second component, an orally compatible activator
gel.

15 2. The dental bleaching system according to claim 1, wherein the first component includes hydroxypropyl cellulose.

20 3. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of said first component.

25 4. The dental bleaching system according to claim 1, wherein the first component comprises hydrogen peroxide at a weight percentage of at least about 0.5%, based on the total weight of the first component.

30 5. The dental bleaching system according to claim 1, wherein the first component comprises hydrogen peroxide at a weight percentage of at least about 5%, based on the total weight of the first component.

35 6. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage of at least about 16% and hydrogen peroxide at

a weight percentage of at least about 1.5%, based on the total weight of the first component.

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7. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage from about 10% to about 25% and hydrogen peroxide at a weight percentage from about 0.5% to about 10%,
10 based on the total weight of the first component.

8. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at
15 about 16% by weight and hydrogen peroxide at about 1.3% by weight, based on the total weight of the first component.

9. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at about
20 16% by weight and hydrogen peroxide at about 6% by weight, based on the total weight of the composition.

10. The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a
25 weight percentage of about 16% and hydrogen peroxide at a weight percentage of about 10%, based on the total weight of the composition.

11. The dental bleaching system according to claim 1, wherein the activator gel comprises sodium fluoride and potassium
30 nitrate.

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1 51831/WPC/D279

12. The dental bleaching system according to claim 1,
wherein the activator gel comprises potassium nitrate and
5 tetrapotassium pyrophosphate.

13. A two-component dental bleaching system, wherein the
components are adapted to be admixed and applied to the teeth
from a dental tray for sustained contact, said system comprising:
10 as a first component, a dental peroxide gel comprising:

Propylene Glycol USP	-	33.000%;
Klucel GF	-	1.980%;
Glycerine USP	-	8.420%;
15 Propylene Glycol USP	-	8.900%;
CAB-0-SIL EH-5	-	4.500%;
Carbamide Peroxide USP	-	16.200%;
Polawax NF	-	8.000%;
Glycerine USP	-	16.100%;
20 Hydrogen Peroxide 50% CG	-	2.900%; and
Antifoaming Agent	-	q.s.

14. A two-component dental bleaching system, wherein the
components are adapted to be admixed and applied to the teeth
25 from a dental tray for sustained contact, said system comprising:
as a first component, a dental peroxide gel comprising:

Propylene Glycol USP	-	33.000%;
Klucel GFF	-	1.980%;
30 Glycerin USP	-	11.920%;
CAB-0-SIL EH-5	-	4.500%;
Carbamide Peroxide USP	-	16.200%;
Polawax NF	-	6.500%;
Glycerine USP	-	14.100%;

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1 51831/WPC/D279

Hydrogen Peroxide 50% CG - 11.800%; and
Antifoaming Agent - q.s.

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15. A two-component dental bleaching system, wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:

as a first component, a dental peroxide gel comprising:

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Propylene Glycol USP - 33.000%;
Klucel GFF - 1.980%;
Glycerine USP - 16.920%;
CAB-0-SIL EH-5 - 4.500%;
15 Carbamide Peroxide USP - 16.200%;
Polawax NF - 6.500%;
Glycerine USP - 14.100%;
Hydrogen Peroxide 50% CG - 20.200%; and
Antifoaming Agent - q.s.

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16. A tooth bleaching gel composition comprising carbamide peroxide and aqueous hydrogen peroxide in the absence of a radiant energy or heat energy activator substance.

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17. The tooth bleaching gel composition according to claim 16, wherein the composition comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of the composition.

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18. The tooth bleaching gel composition according to claim 16, wherein the composition comprises hydrogen peroxide at a weight percentage of at least about 0.5%, based on the total weight of the composition.

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19. The tooth bleaching gel composition according to claim
16, wherein the composition comprises hydrogen peroxide at a
5 weight percentage of at least about 5%, based on the total weight
of the composition.

20. The tooth bleaching gel composition according to claim
16, wherein the composition comprises carbamide peroxide at a
10 weight percentage of at least about 16% and hydrogen peroxide at
a weight percentage of at least about 1.5%, based on the total
weight of the composition.

21. The tooth bleaching gel composition according to claim
16, wherein the composition comprises carbamide peroxide at a
15 weight percentage from about 10% to about 25% and hydrogen
peroxide at a weight percentage from about 0.5% to about 10%,
based on the total weight of the composition.

22. The tooth bleaching gel composition according to claim
16, wherein the composition comprises carbamide peroxide at about
16% by weight and hydrogen peroxide at about 1.3% by weight,
20 based on the total weight of the composition.

23. The tooth bleaching gel composition according to claim
16, wherein the composition comprises carbamide peroxide at about
16% by weight and hydrogen peroxide at about 6% by weight, based
25 on the total weight of the composition.

24. The tooth bleaching gel composition according to claim
16, wherein the composition comprises carbamide peroxide at a
weight percentage of about 16% and hydrogen peroxide at a weight
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1 51831/WPC/D279

percentage of about 10%, based on the total weight of the composition.

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25. A method for bleaching teeth comprising:

providing a dual barreled syringe wherein the first barrel of said syringe is loaded with a dental peroxide gel comprising both carbamide peroxide and hydrogen peroxide and the
10 second barrel of said dual barrel syringe comprising an orally compatible activator gel;

dispensing the first and second components from the syringe into a bleaching tray while mixing said components together to
15 thereby form a bleaching gel; and

applying the bleaching tray and mixed together bleaching gel to the teeth to be whitened.

26. The method according to claim 25, wherein the dental
20 peroxide gel comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of said dental bleaching gel.

27. The method according to claim 25, wherein the dental
25 bleaching gel comprises hydrogen peroxide at a weight percentage of at least about 0.5%, based on the total weight of the dental bleaching gel.

28. The method according to claim 25, wherein the dental
30 peroxide gel comprises hydrogen peroxide at a weight percentage of at least about 5%, based on the total weight of the dental peroxide gel.

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29. The method according to claim 25, wherein the dental
peroxide gel comprises carbamide peroxide at a weight percentage
5 of at least about 16% and hydrogen peroxide at a weight of at
least 1.5%, based on the total weight of the dental peroxide gel.

30. The method according to claim 25, wherein the dental
peroxide gel comprises carbamide peroxide at a weight percentage
10 of at about 10% to about 25% and hydrogen peroxide at a weight
percentage of from about 0.5% to about 10%, based on the total
weight of the dental peroxide gel.

31. The method according to claim 25, wherein the dental
peroxide gel comprises carbamide peroxide at about 16% by weight
and hydrogen peroxide at about 0.5% to about 10% by weight, based
15 on a total weight of the dental peroxide gel.

32. The method according to claim 25, wherein the dental
peroxide gel comprises carbamide peroxide at a weight percentage
20 of about 16% and hydrogen peroxide at a weight percentage of
about 10%, based on the total weight of the dental peroxide gel.

33. The method according to claim 25, wherein the activator
gel comprises sodium fluoride and potassium nitrate.
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34. The method according to claim 25, wherein the activator
gel comprises potassium nitrate and tetrapotassium pyrophosphate.
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